

## WHAT IS CLAIMED IS:

1. A radio communication terminal comprising:  
a receiver connected to a receiving antenna; and  
interference canceller for canceling a radiated noise component of  
5 electronic equipment from a received signal output from said receiver;  
wherein said interference canceller includes:  
a radiated noise predictor for generating a pseudo interference signal  
base on the radiated noise produced by said electronic equipment; and  
an adder for adding together said received signal and said pseudo  
10 interference signal to cancel said radiated noise component in said received  
signal.
2. The radio communication terminal of claim 1, wherein said  
interference canceller is provided with means for obtaining radiated noise  
from said electronic equipment and generates said pseudo interference signal  
15 from said radiated noise based on the output from said adder.
3. The radio communication terminal of claim 1, wherein said radiated  
noise predictor includes: an amplifier connected to said electronic equipment,  
for controlling the level of the radiated noise obtained therefrom; a phase  
shifter connected in series to said amplifier, for controlling the phase of said  
20 radiated noise; and a control part for controlling the gain of said amplifier and  
the phase-shift amount of said phase shifter based on the output from said  
adder.
4. The radio communication terminal of claim 1, wherein said radiated  
noise predictor includes: an adaptive filter for generating said pseudo  
25 interference signal by adaptively filtering said radiated noise; and a control  
part for controlling coefficients of said adaptive filter based on the output  
from said adder.

5. The radio communication terminal of claim 1, which further comprises a memory for storing a radiated noise component received by said receiver during a transmission interruption period of a transmitting side, and wherein said radiated noise predictor includes an adaptive filter for generating  
5 said pseudo interference signal by adaptively filtering the radiated noise component read out from said memory during the transmission interruption period or transmission period of the transmitting side; and a control part for controlling coefficients of said adaptive filter based on the output from said adder.

10 6. The radio communication terminal of claim 1, which further comprises a training signal generating part for generating a training signal, and wherein said radiated noise predictor includes: a selector for selecting the training signal from said training signal generating part during a period of transmission of a training signal from the transmitting side and for selecting  
15 the output from said adder during a period of receiving an information signal from the transmitting side ; a subtractor for subtracting the selected output of said selector from the output of said receiver; an adaptive filter for generating said pseudo interference signal by adaptively filtering the output from said subtractor by filter coefficients; and a control part for controlling the  
20 coefficients of said adaptive filter based on the output from said adder.

7. The radio communication terminal of claim 1, which further comprises a second receiver connected to a second antenna, and wherein said radiated noise predictor includes: an amplitude/phase adjustor for adjust the amplitude and phase of a received signal from said second receiver to  
25 generate said pseudo interference signal; and a control part for controlling the amplitude and phase adjustments by said amplitude/phase adjustor based on the output from said adder so that said pseudo interference signal and the

output from said first receiver cancel each other during the transmission interruption period of the transmitting side.

8. The radio communication terminal of claim 1, which further comprises a plurality of receivers each connected to one of a plurality of antennas, and a diversity receiver, and wherein: said interference canceller includes a plurality of adders each corresponding to one of said plurality of receivers; said radiated noise predictor includes a plurality of amplitude/phase adjustors for adjusting amplitudes and phases of radiated noises from electronic equipment to generate pseudo interference signals in correspondence with said plurality of receivers, and a control part for controlling the amplitude and phase adjustments by said plurality of amplitude/phase adjustors based on the outputs from said plurality of adders, the outputs from said plurality of adders being diversity-received by said diversity receiver.

9. The radio communication terminal of claim 3 or 8, wherein said interference canceller includes a band converting part which converts said radiated noise from electronic equipment to the same band as that of the output received signal of said receiver and provides the converted output to said radiated noise predictor.

10. The radio communication terminal of claim 1, which further comprises a second receiver connected to a second receiving antenna, and wherein said radiated noise predictor includes: first and second multipliers for multiplying received signals from said first and second receivers by first and second tap coefficients, respectively, and for providing the multiplied outputs to said adder; and a control part for controlling said first and second tap coefficients based on the output from said adder so that radio noise components in the outputs from said first and second multipliers cancel each

other.

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